

DH-IPC-HFW1430DT-STW

4 MP IR Fixed-focal WiFi Bullet Network Camera



System Overview

Driven by industry-leading technology, Dahua Wi-Fi series network cameras are highly precise and easy to install, producing high-quality images. They have strong Wi-Fi connection capabilities and do not require network cables, eliminating the need for a professional construction team. This series of cost-effective cameras support SD card storage, and are dustproof and waterproof. They are ideal for small and medium-sized scenes such as retail stores, homes, and other small and medium-sized enterprises.

Functions

Smart H.265+ & Smart H.264+

With advanced scene-adaptive rate control algorithm, Dahua smart encoding technology realizes the higher encoding efficiency than H.265 and H.264, provides high-quality video, and reduces the cost of storage and transmission.

Two-way Audio

With its built-in high-sensitivity microphone and high-power speaker, the camera realizes two-way audio through the mobile app.

Dual-antenna

High-performance dual antenna and MIMO (multiple-input and multiple output) technology of the network camera make the WiFi transmission distance farther, anti-interference performance better, and video transmission smoother.

Motion Detection

When moving objects appear in the monitoring image, Dahua Motion Detection technology triggers alarm or records.

Day/Night

Dahua Day/Night function provides color image when illumination is adequate; when illuminance is inadequate, it switches night mode and provides white and black image. It can guarantee that the network camera can work normally when illuminance changes.

- 4-MP 1/3" CMOS image sensor, low luminance, and high definition image
- Outputs max. 4 MP (2560 × 1440)@20 fps, and max.supports 3 MP (2304 × 1296)@25/30 fps
- H.265 codec, high compression rate, ultra-low bit rate
- Built-in IR LED, and the max. illumination distance is 30 m
- SMART H.264 +/H.265+, flexible coding, applicable to various bandwidth and storage environments
- DWDR, 3D NR, BLC, digital watermarking, applicable to various monitoring scenes
- Abnormality detection: Motion detection, video tampering, audio detection, no SD card, SD card full, SD card error, network disconnection, IP conflict, illegal access
- Built-in dual-antenna 2.4G Wi-Fi that covers a range of up to 150 m in an open area
- Supports max.128 G Micro SD card. Built-in MIC and speaker
- 12 VDC power supply
- IP67 protection



Cyber Security

Dahua network cameras employ a series of security technologies, including security authentication and authorization, access control protocols, trusted protection, encrypted transmission and encrypted storage. These technologies improve the camera's defense against external cyber threats and prevent malicious programs from compromising the device.

Technical Specification

Camera

Image Sensor	1/3" CMOS
Max. Resolution	2560 × 1440
ROM	16 MB
RAM	64 MB
Scanning System	Progressive
Electronic Shutter Speed	Auto/Manual 1/3 s~1/100,000 s
Min. Illumination	0.025 lux@F2.0 (Color, 30 IRE) 0.0025 lux@F2.0 (B/W, 30 IRE) 0 lux (Illuminator on)
S/N Ratio	> 56 dB
Illumination Distance	30 m (98.43 ft)
Illuminator On/Off Control	Auto

Illuminator Number		1 (IR LED)			
Pan/Tilt/Rotation Range		Pan: 0°–360° Tilt: 0°–90° Rotation: 0°–360°			
Lens					
Lens Type		Fixed-focal			
Lens Mount		M12			
Focal Length		2.8 mm; 3.6 mm			
Max. Aperture		F2.0			
Field of View		2.8 mm: Horizontal: 90°; Vertical: 50°; Diagonal: 107° 3.6 mm: Horizontal: 76°; Vertical: 40°; Diagonal: 92°			
Iris Control		Fixed			
Close Focus Distance		2.8 mm: 1.0 m (3.28 ft) 3.6 mm: 1.4 m (4.59 ft)			
DORI Distance	Lens	Detect	Observe	Recognize	Identify
	2.8mm	68.0 m (223.10 ft)	27.2 m (89.24 ft)	13.6 m (44.62 ft)	6.8 m (22.31 ft)
	3.6mm	85.2 m (279.53 ft)	34.1 m (111.88 ft)	17.0 m (55.77 ft)	8.5 m (27.89 ft)
Video					
Video Compression		H.264B; H.264; H.264H; H.265			
Smart Codec		Smart H.265+; Smart H.264+			
Video Frame Rate		Main stream: 2560 × 1440 (1–20 fps) Sub stream: 704 × 576 (1–25 fps) 704 × 480 (1–30 fps) *The values above are the max. frame rates of each stream; for multiple streams, the values will be subjected to the total encoding capacity.			
Stream Capability		2 streams			
Resolution		2560 × 1440 (2560 × 1440); 2304 × 1296 (2304 × 1296); 1080p (1920 × 1080); 1.3M (1280 × 960); 720p (1280 × 720)			
Bit Rate Control		CBR/VBR			
Video Bit Rate		H264: 24 kbps–4096 kbps H265: 9 kbps–4096 kbps			
Day/Night		Auto(ICR)/Color/B/W			
BLC		Yes			
WDR		DWDR			
White Balance		Auto; natural; street lamp; outdoor; manual; regional custom			
Gain Control		Auto			
Noise Reduction		3D NR			
Motion Detection		OFF/ON (4 areas, rectangular)			
Smart Illumination		Yes			
Image Rotation		0°/180°			
Mirror		Yes			
Audio					
Built-in MIC		Yes			

Built-in Speaker		Yes
Audio Compression		G.711a; G.711Mu
Alarm		
Alarm Event		No SD card; SD card full; SD card error; network disconnection; IP conflict; illegal access; motion detection; video tampering; audio detection; intensity change
Network		
Network Port		RJ-45 (10/100 Base-T)
Wi-Fi		IEEE802.11b/g/n 2.4–2.4835 GHz; 2.4 G
Wireless Range		Up to 150 m (The performance varies based on actual environment)
SDK and API		Yes
Cyber Security		Video encryption; configuration encryption; Digest; WSSE; account lockout; security logs; generation and importing of X.509 certification; HTTPS; trusted boot; trusted execution; trusted upgrade
Network Protocol		IPv4; HTTP; TCP; UDP; ARP; RTP; RTSP; RTCP; DHCP; DNS; NTP; Multicast; RTMP
Interoperability		ONVIF (Profile S/Profile T); CGI; P2P
User/Host		6 (Total bandwidth: 36 M)
Storage		Micro SD card (support max. 128 GB)
Browser		IE Chrome Firefox
Management Software		Smart PSS; DSS; DMSS
Mobile Client		iOS; Android
Certification		
Certifications		CE-LVD:EN62368-1; CE-EMC:Electromagnetic Compatibility Directive 2014/30/EU; CE-RED:Radio Equipment Directive 2014/53/EU; FCC:47 CFR FCC Part 15, Subpart B; FCC ID:FCC PART 15C
Power		
Power Supply		12 VDC
Power Consumption		Basic: 2.1 W (12 VDC) Max. (H.265+IR intensity):6.1 W (12 VDC)
Environment		
Operating Temperature		–30 °C to +50 °C (–22 °F to +122 °F)
Operating Humidity		≤ 95%
Storage Temperature		–40 °C to +60 °C (–40 °F to +140 °F)
Protection		IP67
Structure		
Casing		Front cover: Plastic Rear: Plastic Bracket: Metal
Product Dimensions		180 mm × 83.3 mm × 114.8 mm (7.09" × 3.28" × 4.52")
Net Weight		350.1 g (0.77 lb)
Gross Weight		588.1 g (1.30 lb)

Ordering Information		
Type	Model	Description
4 MP Camera	DH-IPC-HFW1430DTP-STW-0280B	4 MP IR Fixed-focal WiFi Bullet Network Camera, PAL, 2.8 mm
	DH-IPC-HFW1430DTN-STW-0280B	4 MP IR Fixed-focal WiFi Bullet Network Camera, NTSC, 2.8 mm
	DH-IPC-HFW1430DTP-STW-0360B	4 MP IR Fixed-focal WiFi Bullet Network Camera, PAL, 3.6 mm
	DH-IPC-HFW1430DTN-STW-0360B	4 MP IR Fixed-focal WiFi Bullet Network Camera, NTSC, 3.6 mm
Accessories	ADS-12AM-12 12012EPG	12V DC/1A Power Adapter

Accessories

Included:



ADS-12AM-12 12012EPG
12 V DC/1A
Power Adapter

Installation

Ceiling Mount	Junction Mount	Pole Mount(Vertical)

Dimensions (mm[inch])

